

Western Electric Co., Incorporated,  
Engineering Dept.,  
New York.

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Issue 1a - BT-438521.  
Replacing all previous issues.  
April 20, 1920.

METHOD OF OPERATION  
LINE CIRCUIT

To Supervisors - Special Outgoing Trunk Test Board - Machine Switching System.  
SOUTHWESTERN BELL TELEPHONE COMPANY

GENERAL DESCRIPTION

1. This circuit is a two way key ended automatic trunk between the outgoing trunk test board and a supervisor. It terminates at the distant end in a similar circuit.

DETAILED DESCRIPTION

OPERATION

2. On an incoming call the line lamp lights from ground over the lead L1. When the key is operated the E24 relay operates extinguishing the line lamp, and locks to the same ground on lead L1.

3. If the key is restored to normal before the key at the distant end is released, the E24 relay remains locked under control of the key at the distant end, thus preventing the line lamp from relighting as a recall signal.

4. When the key at the distant end is released, the E24 relay releases and the circuit is restored to normal.

5. To make an outgoing call the C15 key is operated, in turn operating the E24 relay and connecting ground to lead L, lighting the lamp in the supervisor's circuit.

6. When the call is answered, the supervisor's lamp is extinguished and the E24 relay locks to ground on lead L1. When both keys are released the circuit is restored to normal.

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CIRCUIT REQUIREMENTS

	<u>OPERATE</u>	<u>NON-OPERATE</u>	<u>RELEASE</u>
E24	Test .025 amp.	Test .0085 amp.	
(CO)	Readj. .012 amp.	Readj. .009 amp.	

ENG.--WHL-VL.  
10/5/21.

CHK'D.--FAB.

APPROVED - C.L.SLUYTER, G.M.L.